



Exploring Discrete Dynamics. 2nd Edition. the Ddlab Manual (Paperback)

By Andrew Wuensche

Luniver Press, 2016. Paperback. Condition: New. 2nd Revised ed.. Language: English . Brand New Book ***** Print on Demand *****. EXPLORING DISCRETE DYNAMICS (second edition) is a comprehensive guide to studying cellular automata and discrete dynamical networks with the classic software Discrete Dynamics Laboratory (DDLab), widely used in research and education. These collective networks are at the core of complexity and emergent self-organisation. With interactive graphics, DDLab is able to explore a huge diversity of behaviour, mostly terra incognita -- space-time patterns, and basins of attraction -- mathematical objects representing the convergent flow in state-space. Applications range within physics, mathematics, biology, cognition, society, economics and computation, and more specifically in neural and genetic networks, artificial life, and theories of memory. This second edition covers many new features. Advance Praise by Stuart Kauffman The great John von Neumann invented cellular automata. These discrete state finite automata have become a mainstay in the study of complex systems, exhibiting order, criticality, and chaos. Andy Wuensche s Exploring Discrete Dynamics 2016, is by far the most advanced tool for simulating such systems and has become widely important in the field of complexity. FIRST EDITION REVIEWS Andrew Wuensche has, in an important sense, done more...



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Reviews

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